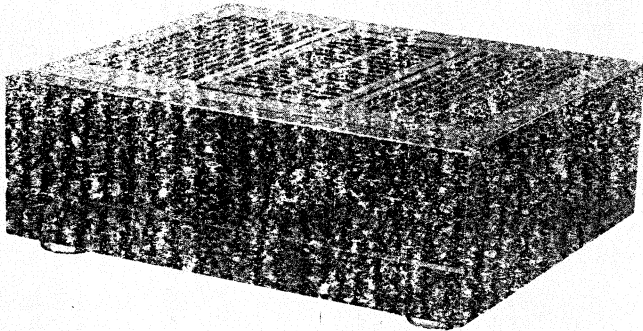


Service Manual

Stereo Integrated Amplifier

Amplifier

SU-VX700



Color

(K) Black Type

Areas

Country Code	Area	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany & Italy	

SPECIFICATIONS (DIN 45 500)

■ MAIN AMP. SECTION (POWER AMP. DIRECT input)

20 Hz~20 kHz continuous power output both channels driven	2 × 90 W (8 Ω)
1 kHz continuous power output both channels driven (THD 1%)	2 × 100 W (8 Ω) 2 × 135 W (4 Ω)
63 Hz~12.5 kHz continuous power output both channels driven (THD: 0.7%)	2 × 90 W (8 Ω) 2 × 125 W (4 Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.007% (8 Ω)
half power at 20 Hz~20 kHz	0.005% (8 Ω)
half power at 1 kHz	0.0009% (8 Ω) 0.002% (4 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)	
rated power	0.007% (8 Ω)
Residual hum and noise	0.2 mV
Damping factor	80 (8 Ω), 40 (4 Ω)
Headphones output level/impedance	635 mV/330 Ω
Load impedance	
A or B, BI-WIRING	4~16 Ω
A and B	8~16 Ω

■ PRE AMP. SECTION

Input sensitivity/impedance	
PHONO MM	2.5 mV/47 kΩ
MC	250 μV/220 Ω
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	150 mV/22 kΩ
POWER AMP. DIRECT	1 V/18 kΩ
Phono maximum input voltage (1 kHz, RMS)	
MM	170 mV
MC	15 mV
S/N (Rated power 4 Ω)	
PHONO MM	79 dB (86 dB, IHF '66)
MC	68 dB (68 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	97 dB (100 dB, IHF '66)
POWER AMP. DIRECT	106 dB (115 dB, IHF '66)

S/N at -26 dB power (4 Ω)	77 dB
PHONO MM	67 dB
MC	84 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	
S/N at 50 mW power (4 Ω)	75 dB
PHONO MM	67 dB
MC	78 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	
Frequency response	RIAA standard curve ± 0.8 dB (30 Hz~15 kHz)
PHONO MM	
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT	3 Hz~100 kHz (+0, -3 dB) +0 dB, -0.2 dB (20 Hz~20 kHz)
POWER AMP. DIRECT	3 Hz~120 kHz (+0, -3 dB) +0 dB, -0.2 dB (20 Hz~20 kHz)
Tone controls	
BASS	50 Hz, +10~-10 dB
TREBLE	20 kHz +10~-10 dB -20 dB
Muting	
Subsonic filter	20 Hz, -12 dB/oct
Loudness control (volume at -30 dB)	50 Hz, +9 dB
Output voltage/impedance	1 50 mV
TAPE 1, TAPE 2/DAT REC OUT	±1 dB
Channel balance (AUX 250 Hz~6.3 kHz)	50 dB
Channel separation (AUX 1 kHz)	

■ GENERAL

Power consumption	690 W
Power supply	
For Great Britain:	AC 50 Hz/60 Hz, 240 V
For Others:	AC 50 Hz/60 Hz, 230 V
Dimensions (W × H × D)	430 × 158 × 429 mm (16-15/16" × 6-7/32" × 16-9/32")
Weight	14.0 kg (30.8 lb.)

Notes:

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

■ CONTENTS

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BEFORE REPAIR AND ADJUSTMENT	2	PRINTED CIRCUIT BOARDS	15~18
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CONNECTIONS	4~6	REPLACEMENT PARTS LIST	22, 25~27
DISASSEMBLY INSTRUCTIONS	7~10	CABINET PARTS LOCATION	23, 24
SCHEMATIC DIAGRAM	11~14	PACKING	25

■ BEFORE REPAIR AND ADJUSTMENT

- (1) Turn off the power supply. Using a 10 Ω , 10 W resistor, shortcircuit both ends of power supply capacitors (C601, C602) in order to discharge the voltage.
- (2) Before turning on the power switch of the unit.
 - A. Connect the voltage controller to the primary side.
 - B. Connect the AC ampere meter to the primary side or connect the DC voltage meter to the "±B" circuit of the secondary side.
 - C. Turn the VR of ICQ (VR451, VR452, VR501 and VR502) to minimum (counterclockwise).
 - D. After setting the output to zero of the voltage controller, turn on the power switch of the unit.
And increase the output of voltage controller gradually.
Then, check carefully whether the current value of primary side become more than following value or whether the DC voltage of secondary side is increasing slowly.
 - E. If the value of current is increasing unusually or the DC voltage is not increasing, lower the output level of voltage controller immediately.
- The current value of the primary side at no signal. (Confirm the power supply voltage of each area and provided voltage of the unit.)

Power supply voltage		AC 230 V	AC 240 V
Consumed current	50 Hz	110~210 mA	100~200 mA
	60 Hz	—	—

■ PROTECTION CIRCUITRY

The protection circuitry of the amplifier may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

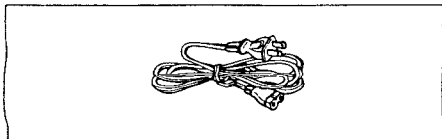
If this occurs, follow the procedure outlined below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again.

Note:

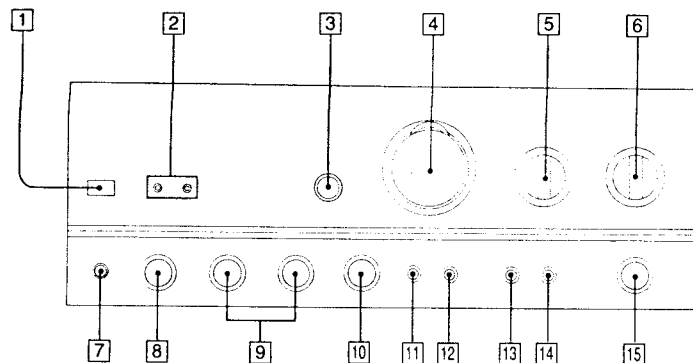
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ ACCESSORY



- AC power supply cords 1
- <SFDAC05E03> For (E), (EG) areas.
- <SJA193> For (EB) area only.

■ LOCATION OF CONTROLS



1 Power switch (POWER)

2 Operation indicators (AMPLIFIER OPERATION MONITOR)

These indicators illuminate to indicate the operating condition of this unit.

VOLTAGE CONTROL:

When the power is switched ON, this indicator illuminates when the unit is in the operation condition.

CURRENT DRIVE:

When the power is switched ON, this indicator illuminates after about 4 seconds when the unit is in the operation condition.

If an abnormal condition in the circuitry is detected, such as DC voltage appearing in the output, or a short-circuit of the positive (+) and negative (-) wires from the speaker terminals, the protection circuit functions and this indicator does not illuminate.

3 Power amplifier direct switch (POWER AMP DIRECT)

This switch is used to listen to the sound from a component connected to the "POWER AMP DIRECT" terminals.

When this switch is pressed inward to the "ON" position, a superior level of tone quality can be obtained, because the signals from the component connected to the "POWER AMP DIRECT" terminals are sent directly to the volume control and power amplifier section of this unit. The tone control circuit, balance control, loudness switch, muting switch and mode selector are bypassed.

4 Volume control/indicator (VOLUME)

There are two types of volume scale indications: one for when the extended direct drive selector (for SU-VX800) or the power amplifier direct switch (for SU-VX700) is OFF, and one for when it is ON (Indicator will illuminate.).

5 Recording output selector (REC SELECTOR)

This selector is used to select the sound source to be recorded by the connected tape deck 1 and/or tape deck 2 (or DAT).

6 Input selector (INPUT SELECTOR)

This selector is used to select the sound source to be heard, such as a disc, radio broadcast, etc.

7 Headphones jack (PHONES)

8 Speaker selector (SPEAKERS)

This selector is used to select the speaker systems to be used.

OFF: No sound will be heard from the speaker systems.

A: Sound can be heard from the speaker systems connected to the "A" terminals.

B: Sound can be heard from the speaker systems connected to the "B" terminals.

A+B/BI-WIRING: Sound can be heard simultaneously from the speaker systems connected to the "A" terminals and the "B" terminals. Or, if bi-wired speaker systems are connected, sound can be heard from them.

9 Tone controls (BASS/TREBLE)

The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

10 Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

11 Tone control switch (TONE CONTROL)

This switch is used to set the tone control circuit (bass, treble) ON or OFF.

12 Loudness switch (LOUDNESS)

This switch is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is set to the "ON" position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

13 Muting switch (MUTING)

This switch is used to temporarily reduce the volume level (approx. 1/10).

The effect activates when setting this switch to the "ON" position.

14 Mode selector (MODE)

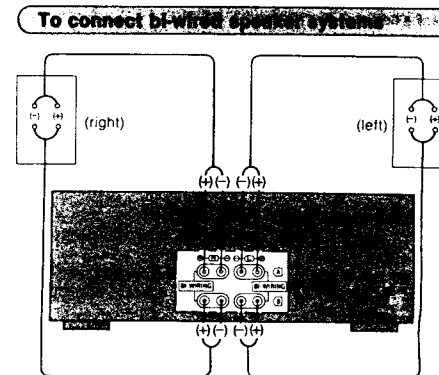
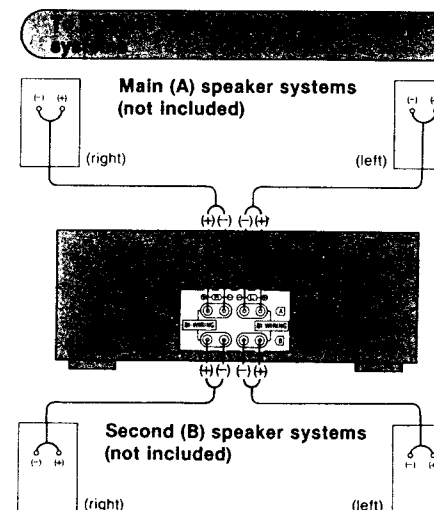
This selector is used to select stereo or monaural operation.

15 Phono cartridge selector (PHONO SELECTOR)

This selector should be set to the position which corresponds to the type of cartridge used on the turntable. The "SUBSONIC" position is used to eliminate ultra-low-frequency noise such as motor "rumble" and unusual vibration of the woofer cone caused by a warped disc, etc.

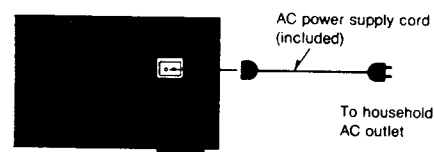
■ CONNECTIONS

Connection to speaker systems



Note: Connect only bi-wired speaker systems in this way.

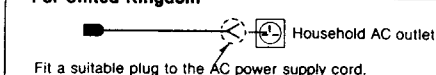
To connect the AC power supply cord (included)



Notes:

- Connect the AC power supply cord (included) after all other cables and cords are connected.
- The configuration of the AC outlet and AC power supply cord differs according to area.

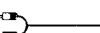
For United Kingdom

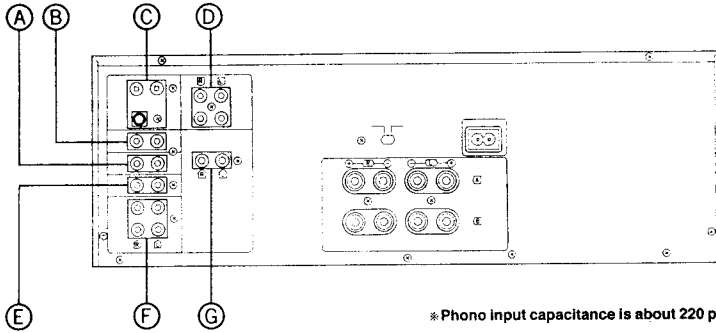


To connect to each terminals

Make connections to each component in the system by using stereo connection cables (not included).

Stereo connection cable

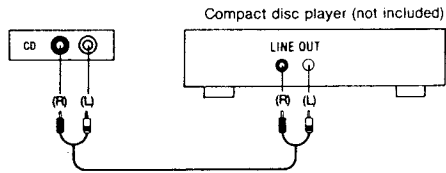
White (L) 
Red (R) 



*Phono input capacitance is about 220 pF.

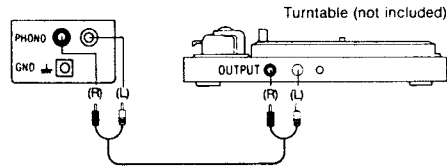
A "CD" terminals

Connect a compact disc player.



C "PHONO" terminals

Connect a turntable. See "Using the short-circuit pins", below.



■ "GND" terminal

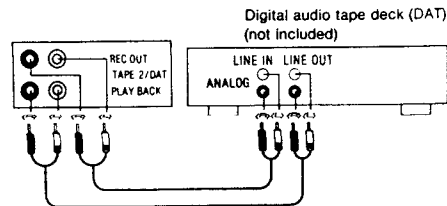
This terminal is for use with a turntable which has a ground wire.

Using the short-circuit pins (included)

Short-circuit pins are inserted into the "PHONO" terminals to reduce noise. Remove the pins before connecting a turntable and reinsert the pins if the turntable is later disconnected. Never connect a short-circuit pin to a "REC OUT" terminal or any terminal other than those above.

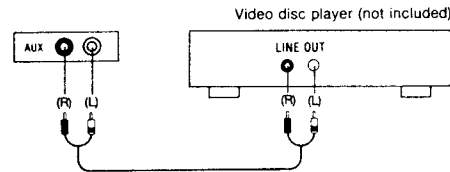
D "TAPE 1" terminals

Connect a second tape deck or a digital audio tape deck (DAT).



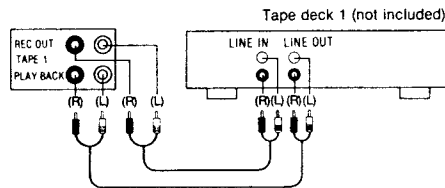
E "AUX" terminals

Connect a component such as a video disc player (audio only connectable), etc.

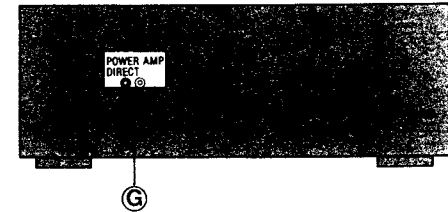


F "TAPE 1" terminals

Connect a first tape deck.



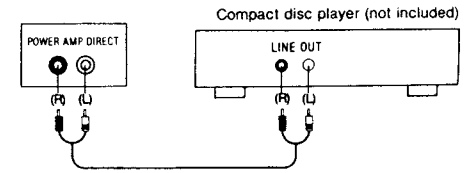
G "POWER AMP DIRECT" terminals



Connect a compact disc player, a digital audio tape deck, or a D/A converter.

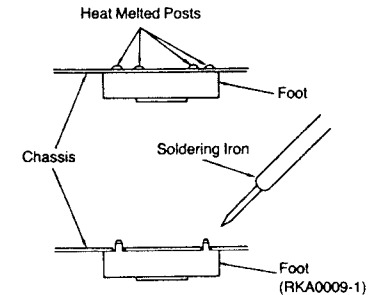
A superior level of tone quality can be obtained, because the signal from these terminals are sent directly to the volume control and power amplifier section of this unit.

The sounds from a component connected to these terminals cannot be recorded.



● Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0009-1) on the chassis, melt the 4 posts with a soldering iron.



"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

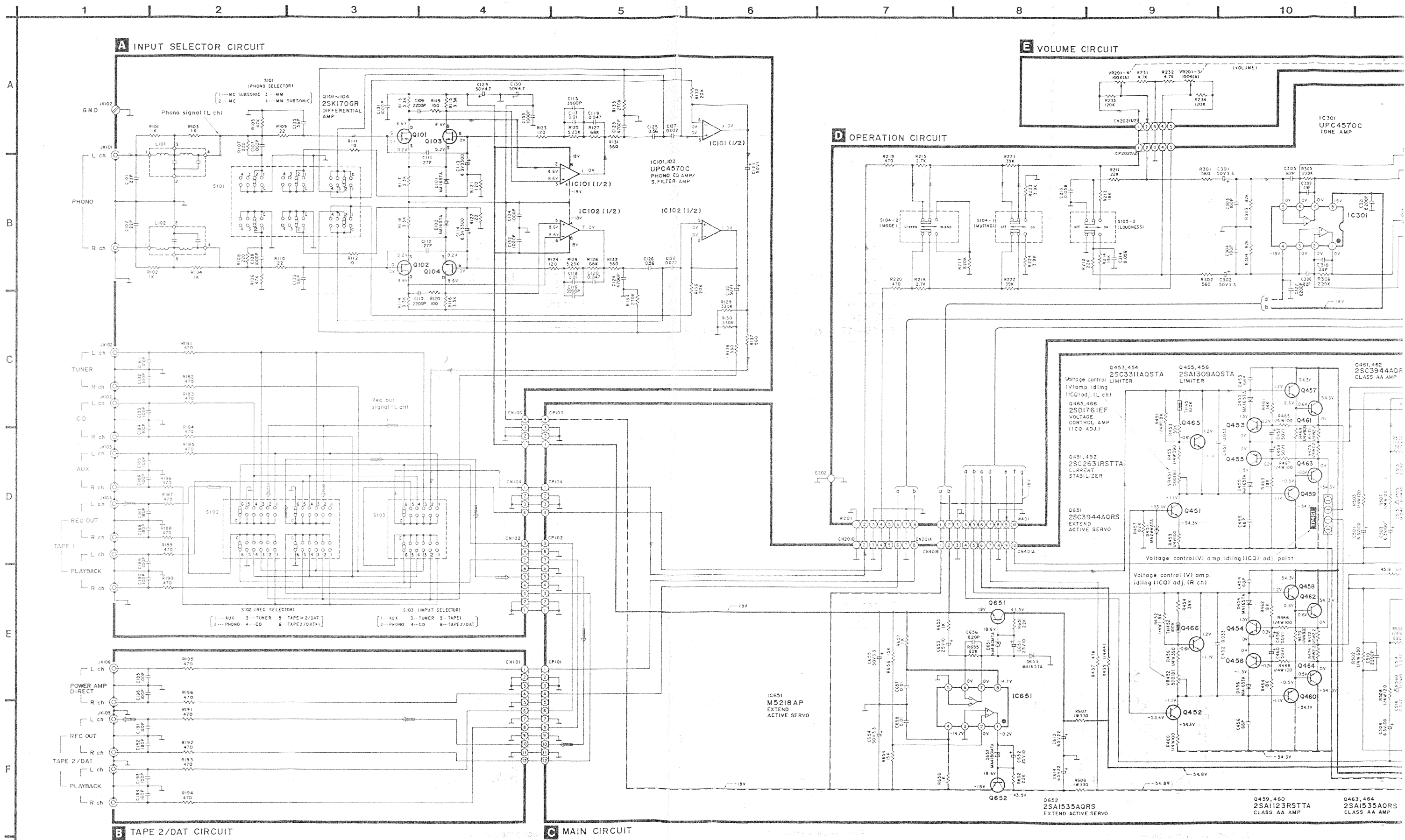
- 2 -

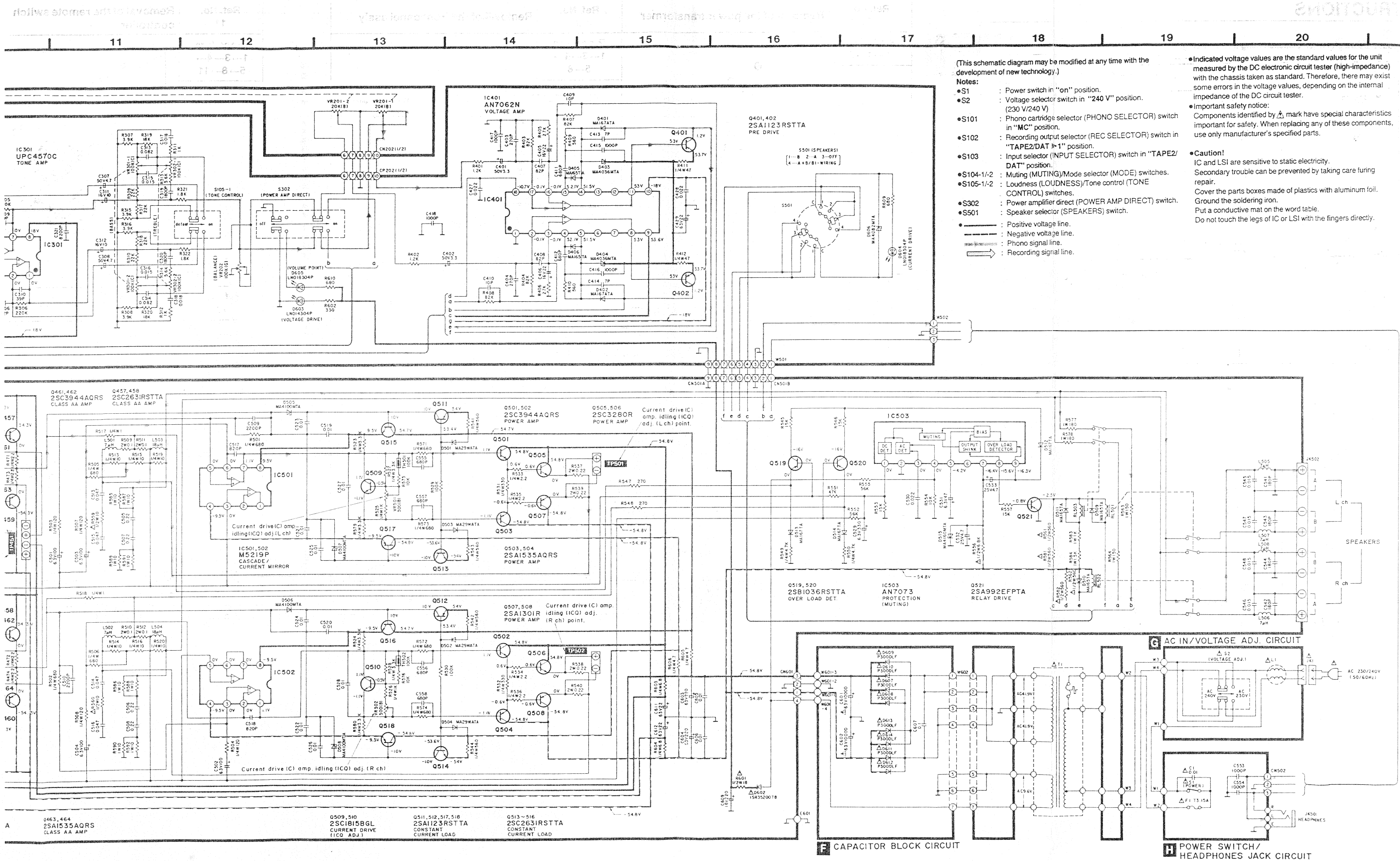
SU-VX700SU-VX700

- 8 -

2. When checking the soldered surface of the digital P.C.B. and replacing the parts, do as shown in the Fig. 2

SCHEMATIC DIAGRAM (Parts list on pages 25-27.)





(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- S1 : Power switch in "on" position.
- S2 : Voltage selector switch in "240 V" position. (230 V/240 V)
- S101 : Phono cartridge selector (PHONO SELECTOR) switch in "MC" position.
- S102 : Recording output selector (REC SELECTOR) switch in "TAPE2/DAT" position.
- S103 : Input selector (INPUT SELECTOR) switch in "TAPE2/DAT" position.
- S104-1/2 : Muting (MUTING)/Mode selector (MODE) switches.
- S105-1/2 : Loudness (LOUDNESS)/Tone control (TONE CONTROL) switches.
- S302 : Power amplifier direct (POWER AMP DIRECT) switch.
- S501 : Speaker selector (SPEAKERS) switch.

- : Positive voltage line.
- - - : Negative voltage line.
- ~~~~~ : Phono signal line.
- : Recording signal line.

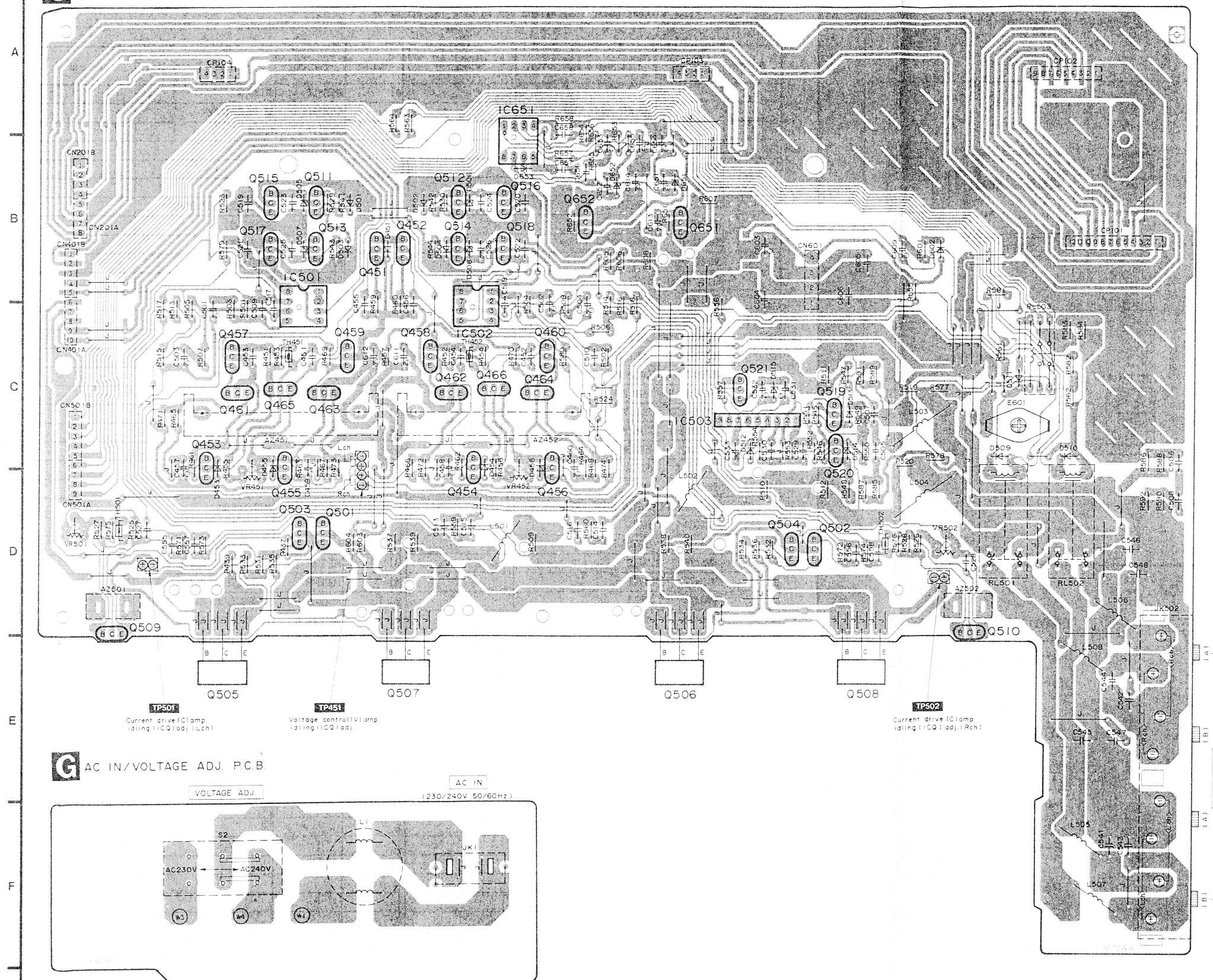
•Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

•Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

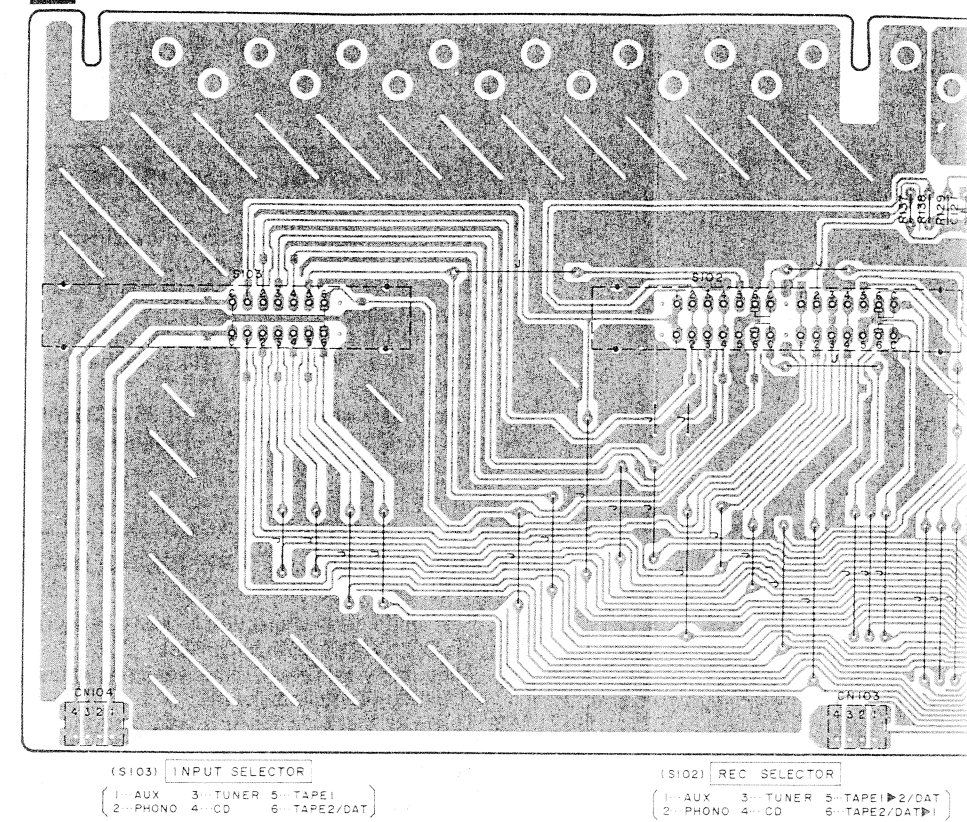
•Caution!
IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair. Cover the parts boxes made of plastics with aluminum foil. Ground the soldering iron. Put a conductive mat on the work table. Do not touch the legs of IC or LSI with the fingers directly.

■ PRINTED CIRCUIT BOARDS (Parts list on pages 25~27.)

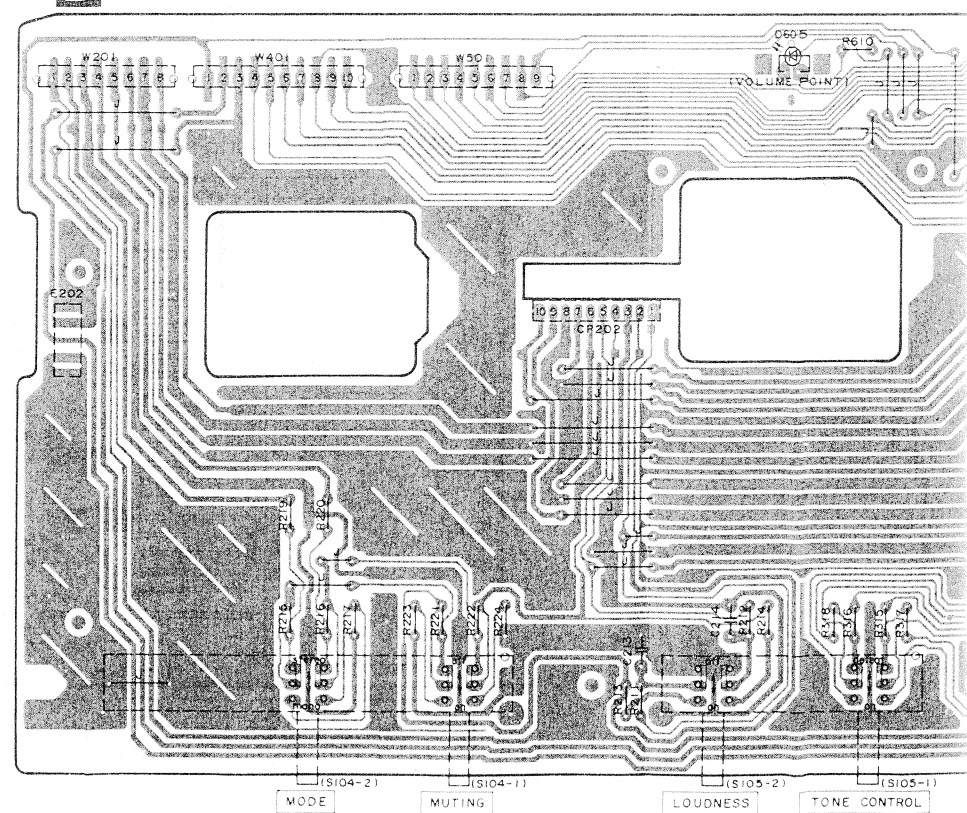
C MAIN P.C.B.



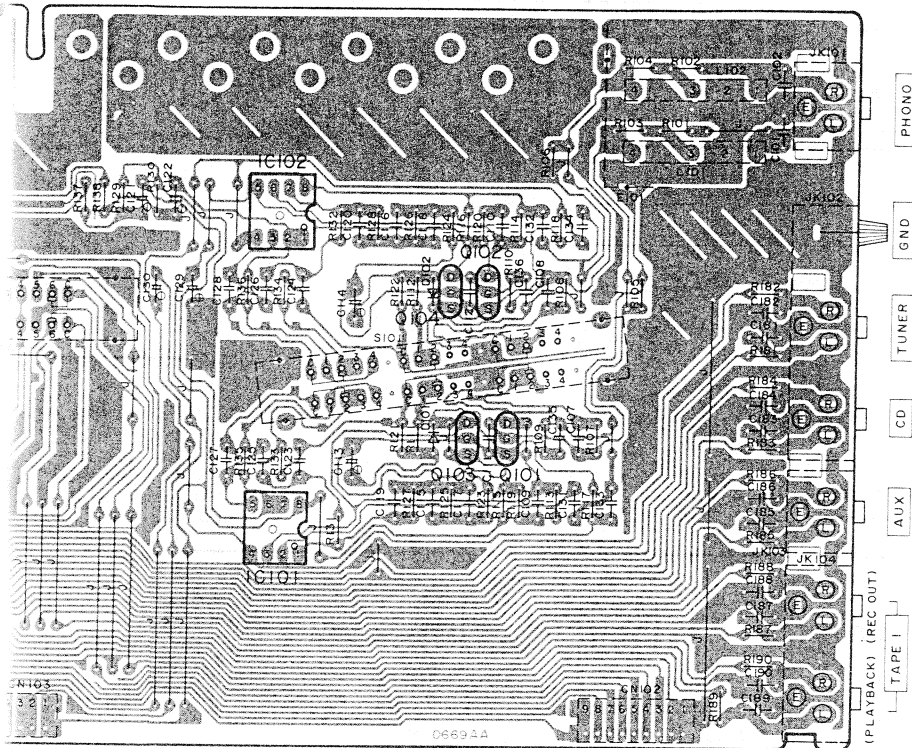
A INPUT SELECTOR P.C.B.



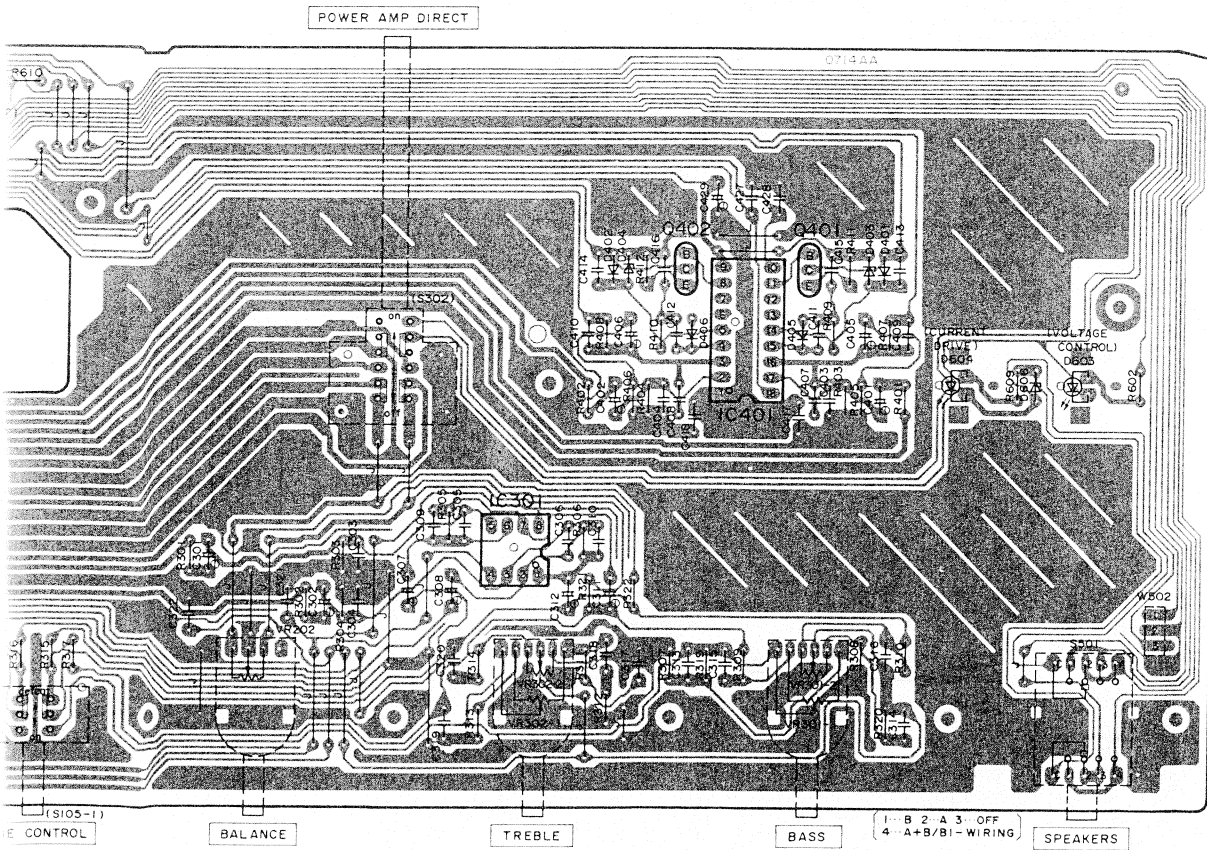
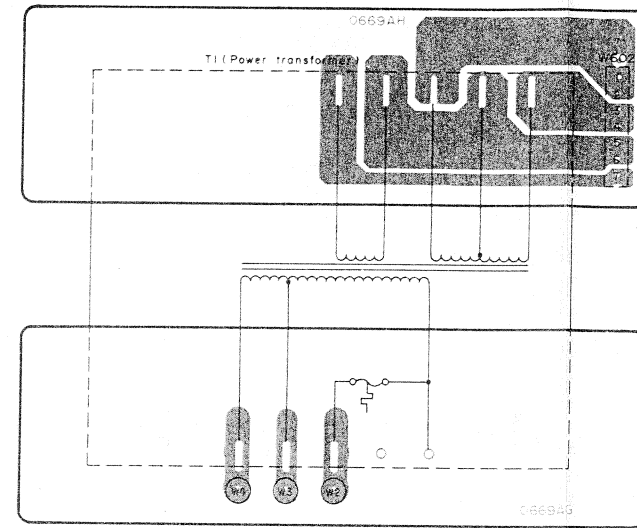
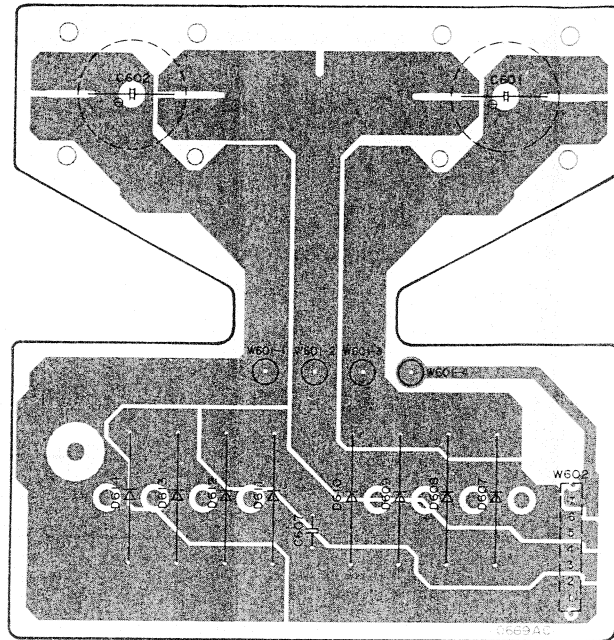
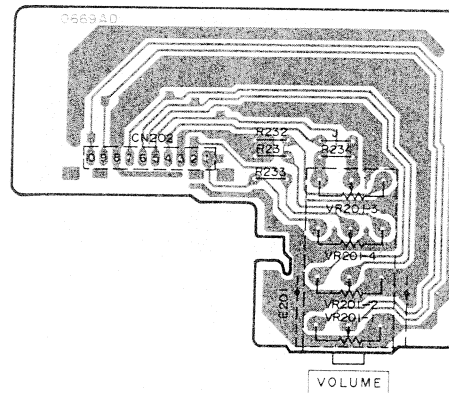
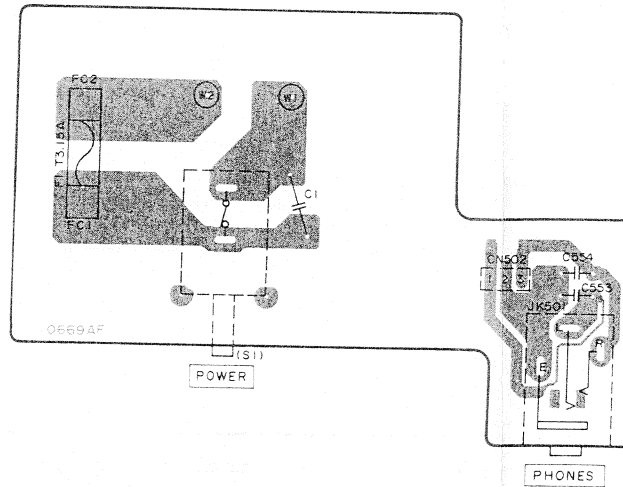
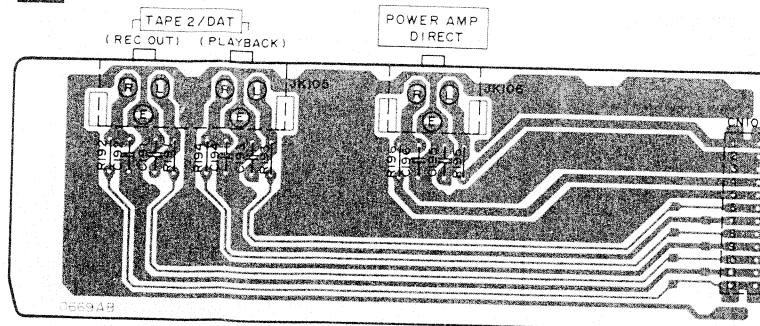
D OPERATION P.C.B.



11 12 13 14 15 16 17 18 19 20 21 22



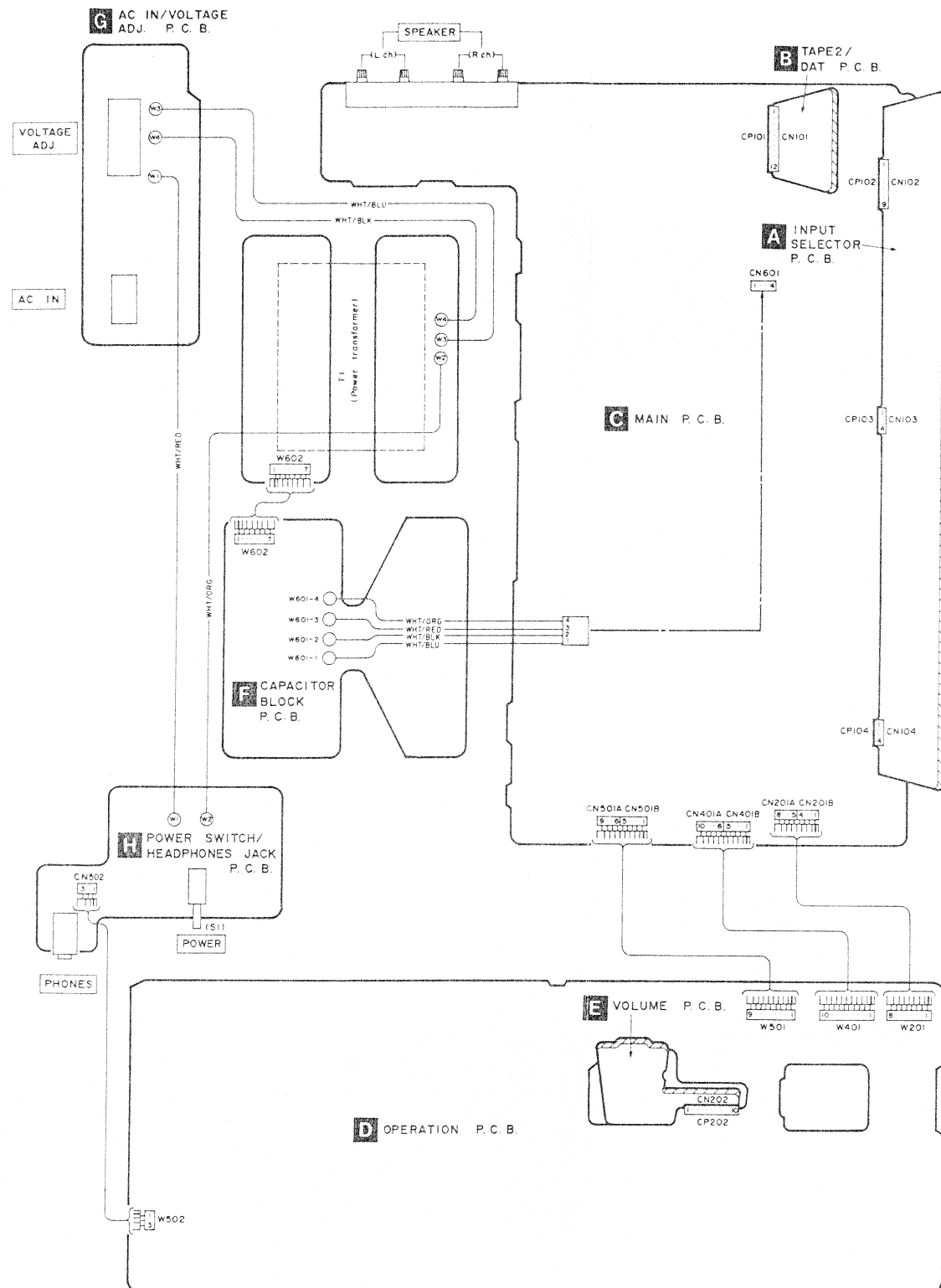
(S101) PHONO SELECTOR
1- MC SUBSONIC 3-MM
2- MC 4-MM SUBSONIC

**F** CAPACITOR BLOCK P.C.B.**E** VOLUME P.C.B.**H** POWER SWITCH/HEADPHONES JACK P.C.B.**B** TAPE2/DAT P.C.B.

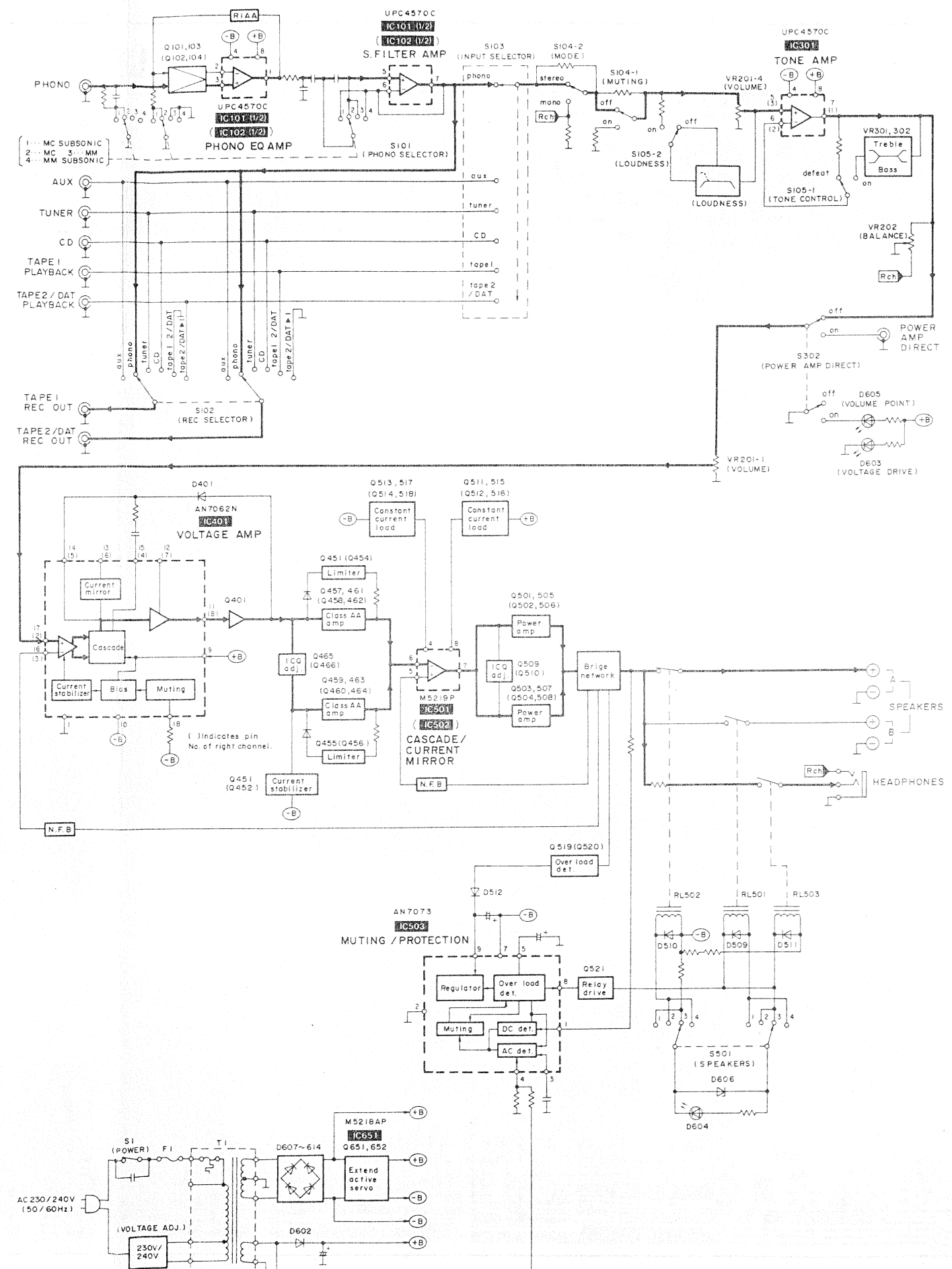
• Terminal guide of IC's, transistors and diodes

M5218AP 8 5 1 4	M5219P 8 5 1 4	UPC4570C 8 pin AN7062N 18 pin No. 1
AN7073 1 9		2SA1309AQSTA 2SB1036RSTTA 2SC3311AQSTA
2SA992EFPTA 2SA1123RSTTA 2SC1815BGL 2SC2631RSTTA	2SK170GR D G S	
2SA1535AQRS 2SC3944AQRS 2SD1761EF	2SA1301R 2SC3280R E C B	
1SR35200TB MA165TA MA167TA MA167ATA MA29WATA	MA4036MTA MA4082MTA CA Cathode A Anode	
MA4100MTA MA4160MTA MA4180MTA	P300DLF Ca Cathode A Anode	LN014304P LN018304P Anode Cathode A Cathode

■ WIRING CONNECTION DIAGRAM



■ BLOCK DIAGRAM



MEASUREMENTS AND ADJUSTMENTS

ADJUSTMENT

Control positions and equipment used.

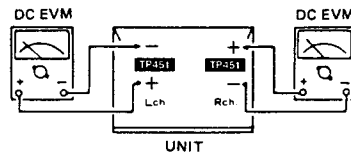
- Volume knob ∞ (Minimum)
- Speaker selector off

• AC and DC electronic voltmeter (EVM)

(1) VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (V) amp. adjusting volumes (VR451, VR452) counter-clockwise.
3. Turn ON the set when it is cold, and about 5 ~ 7 sec. later, adjust VR451 and VR452 so that the voltage is 25mV.

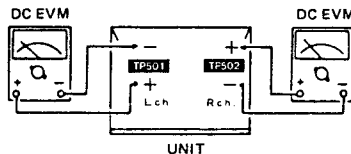
Also, check that the voltage is 25 ~ 30mV (standard: 27mV) after lapse of 10 ~ 15 minutes. (Below 50mV after lapse of 20min.).



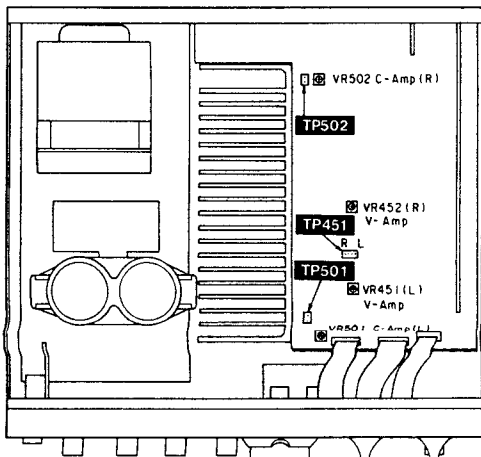
(2) CURRENT DRIVE (C) AMP. IDLING (ICQ) ADJUSTMENT

1. Test equipment connection is shown in figure. (Connect the DC EVM on both channels.)
2. Completely turn the (C) amp. adjusting volumes (VR501, VR502) counter-clockwise.
3. Turn ON the set when it is cold, and the "VOLTAGE CONTROL (V) AMP. IDLING (ICQ) ADJUSTMENT" later, adjust VR501 and VR502 so that the voltage is 3mV.

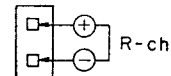
Also, check that the voltage is 4 ~ 7mV (standard: 5mV) after lapse of 10 ~ 15 minutes. (Below 15mV after lapse of 20 min.).



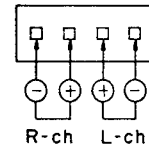
ADJUSTMENT POINTS



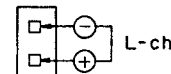
TP502 (C-amp)



TP451 (V-amp)



TP501 (C-amp)



REPLACEMENT PARTS LIST

Notes : • Important safety notice:

- Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 - The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
- Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS LIST		43	SHR9814	CLUMPER	
				44	SJS9231A	AC INLET COVER	
				45	SNE2117-1	SCREW	
1	RGND397-K	UPPER PLATE		46	XTB3-20JFZ	SCREW	
2	RGND122-K	KNOB, VOLUME		47	XTB4-10FFZ	SCREW	
3	RGND123-K	KNOB, REC. / INPUT		48	XTWS3-8T	SCREW	
4	RGND124-K	KNOB, TONE/PHONE/S. P. SEL.		51	RWJ39030700X	CABLE ASS'Y (3P) (W502)	
5	RGND172-K	CABINET		52	RJSA13404	SOCKET (4P)	
6	SJPA11-1	SHORT PIN		53	SJS5331	SOCKET (3P)	
7	SNE2129-1	SCREW		55	SJT783	TERMINAL	
8	XTBS3-8JFZ1	SCREW		56	RJT053	TERMINAL	
9	XTW3-8T	SCREW		57	SUS227	SPRING (AZ501, 502)	
10	RWJ39081700Q	CABLE ASS'Y (8P) (W201)					
11	RWJ39101700Q	CABLE ASS'Y (10P) (W401)					
12	RWJ39091700Q	CABLE ASS'Y (9P) (W501)					
13	RWJ39071500Q	CABLE ASS'Y (7P) (W602)					
14	RGND124A-A	REAR PANEL	(E)	P1	RP00941	PACKING CASE	
14	RGND124A-C	REAR PANEL	(EB)	P2	RP00511	PAD	
14	RGND124A-B	REAR PANEL	(EG)	P3	SPH223	PROTECTION SHEET (A)	
15	RGND030	BUTTON, POWER		P4	SPH434	PROTECTION SHEET (B)	
16	RGND009-K	BUTTON		P5	SPSD152	ACCESSORY BOX	
17	RNR90001	NUT		P6	SPB1061	PROTECTION COVER (MANUAL)	
18	RFKJUVX800EK	BOTTOM BOARD ASS'Y					
18-1	RKAD009-1	FOOT					
19	RKLD006	BOTTOM PLATE					
20	RKAD476	ANGLE		A1	RQF1147	INSTRUCTIONS MANUAL ASS'Y	(E)
21	RKAD477	ANGLE		A1	RQF1148	INSTRUCTIONS MANUAL ASS'Y	(EB)
22	RKAD478	ANGLE		A1	RQF1149	INSTRUCTIONS MANUAL ASS'Y	(EG)
23	RKAD484	ANGLE		A1-1	RFKSUVX800EK	INSTRUCTIONS MANUAL ASS'Y	(E)
24	RKQD239	ANGLE		A1-1	RQT1060-B	INSTRUCTIONS MANUAL	(EB)
25	RKQD240	ANGLE		A1-1	RQT1061-D	INSTRUCTIONS MANUAL	(EG)
26	RKQD255	ANGLE		A1-2	RQA0013	WARRANTY CARD	
27	RSQD019	REMOTE SWITCH (INPUT)		A1-3	RQCB0169	SERVICE CENTER LIST	
28	RSQD020	REMOTE SWITCH (REC.)		A2	SFDAC05E03	AC POWER SUPPLY CORD	Δ (E, EG)
29	RSQD021	REMOTE SWITCH (PHONE)		A2	SJA193	AC POWER SUPPLY CORD	Δ (EB)
30	RGND393-K	VOLUME ORNAMENT					
31	RGND394-A	RING					
32	RFKJUVX700EK	FRONT PANEL ASS'Y					
33	RGND398-K	SIDE ORNAMENT (R)					
34	RGND399-K	SIDE ORNAMENT (L)					
35	RGND134-C	ORNAMENT					
37	RGND136-C	ORNAMENT					
38	RGND611-K	BUTTON, DIRECT					
39	RMRD460-K	HOLDER					
40	RMRD461-K	HOLDER					
41	XTBS26-8J	SCREW					
42	SNE187-2	SPACER					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		D607-614	P300DLF	DIODE	△
				D651, 652	MA4180-M	DIODE	
				D653	MA165	DIODE	
IC101, 102	UPC4570C	I. C. PHONO/EQ. AMP.				VARIABLE RESISTOR(S)	
IC301	UPC4570C	I. C. TONE AMP.					
IC401	AN7052N	I. C. BUFFER AMP.		VR201	BRV16J02A	V. R. VOLUME CONTROL	
IC501, 502	MS219P	I. C. ACTIVE SERVO		VR202	EVJ02QFA2G15	V. R. BALANCE	
IC503	AN7073	I. C. POWER AMP.		VR301, 302	EVJYA1FA2C15	V. R. BASS/TREBLE CONT.	
IC651	MS218AP	I. C. BUFFER AMP.		VR451, 452	EVNDXAA00B52	V. R. ICQ ADJ. (V-AMP.)	
		TRANSISTOR(S)		VR501, 502	EVNDXAA00B52	V. R. ICQ ADJ. (C-AMP.)	
						THERMISTOR(S)	
Q101-104	2SK170GR	TRANSISTOR		TH451, 452	ERTD2ZHL104T	THERMISTOR	
Q401, 402	2SA1123RSTTA	TRANSISTOR		TH501, 502	ERTD2ZHL104T	THERMISTOR	
Q451, 452	2SC2631RSTTA	TRANSISTOR				COIL(S)	
Q453, 454	2SC3311A-Q	TRANSISTOR					
Q455, 456	2SA1309A-R	TRANSISTOR					
Q457, 458	2SC2631RSTTA	TRANSISTOR					
Q459, 460	2SA1123RSTTA	TRANSISTOR					
Q461, 462	2SC3944AQRS	TRANSISTOR		L1	SLQ2650MH9	COIL	△
Q463, 464	2SA1535AQRS	TRANSISTOR		L101, 102	SLM1233	COIL	
Q465, 466	2SD1761EF	TRANSISTOR		L501, 502	SLQY07G-40	COIL	
Q501, 502	2SC3944AQRS	TRANSISTOR		L503, 504	SLQY18G-10	COIL	
Q503, 504	2SA1535AQRS	TRANSISTOR		L505-508	SLQY07G-40	COIL	
Q505, 506	2SC3280R	TRANSISTOR				TRANSFORMER(S)	
Q507, 508	2SA1301R	TRANSISTOR					
Q509, 510	2SC1815BG	TRANSISTOR		T1	RTPIQ5E005-W	POWER TRANSFORMER	△
Q511, 512	2SA1123RSTTA	TRANSISTOR				FUSE(S)	
Q513-516	2SC2631RSTTA	TRANSISTOR					
Q517, 518	2SA1123RSTTA	TRANSISTOR					
Q519, 520	2SB1036R	TRANSISTOR		F1	XBAC231T80	FUSE, 250V T3. 15A	△
Q521	2SA982EFPTA	TRANSISTOR				SWITCH(ES)	
Q651	2SC3944AQRS	TRANSISTOR					
Q652	2SA1535AQRS	TRANSISTOR					
		DIODE(S)		S1	ESB8249V	SW. POWER	△
				S2	ESD26200A	SW. VOLTAGE SELECTOR	△
D101, 102	MA165	DIODE		S101	RSS4F001-A	SW. PHONO SELECTOR	
D401, 402	MA167	DIODE		S102	RSS6D001	SW. REC SELECTOR	
D403, 404	MA4036MTA	DIODE		S103	RSS6B001	SW. INPUT SELECTOR	
D405, 406	MA165	DIODE		S104	ESB68133	SW. MUTING/MODE	
D451	MA299A	DIODE		S105	ESB68130	SW. LOUDNESS/TONE	
D453-456	MA165	DIODE		S302	RSP2D008-A	SW. POWER AMP DIRECT	
D501-504	MA299A	DIODE		S501	RSR4B004-A	SW. SPEAKER SELECTOR	
D505-508	MA1100MTA	DIODE				CONNECTOR(S)	
D509-511	MA165	DIODE					
D512-514	MA167	DIODE					
D602	LSR35200TB	DIODE	△	CN101	RJT057W012	SOCKET (12P)	
D603	LN014304P	L. E. D.		CN102	RJT057W009	SOCKET (9P)	
D604, 605	LN018304P	L. E. D.		CN103, 104	RJT057W004	SOCKET (4P)	
D606	MA4082MTA	DIODE		CN202	RJT003K010M1	SOCKET (10P)	
				CN502	SJT3321	CONNECTOR (3P)	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
CN601	RJPIA3404	CONNECTOR (4P)		JK103	SJF3068N	ALX JACK	
CN201A	RJSA1A1704	SOCKET (4P)		JK104	SJF3069N	TAPE1 JACK	
CN401A	RJSA1A1705	CONNECTOR (5P)		JK105	SJF3069N	TAPE2 JACK	
CN501A	RJSA1A1704	SOCKET (4P)		JK106	SJF3068N	POWER AMP DIRECT JACK	
CN201B	RJSA1A1704	SOCKET (4P)		JK501	QJAD4552C-A	HEADPHONES JACK	
CN401B	RJSA1A1705	CONNECTOR (5P)		JK502	RJH4801-1	SPEAKER TERMINAL	
CN501B	RJSA1A1705	CONNECTOR (5P)					
CP101	RJT057W012	CONNECTOR (12P)				FUSE HOLDER(S)	
CP102	RJT057W009	CONNECTOR (9P)					
CP103, 104	RJT057W004	CONNECTOR (4P)		FC1, 2	EYF52BC	FUSE HOLDER	
CP202	RJT003K010M1	CONNECTOR (10P)				RELAY(S)	
		JACK(S)					
JK1	SJS9231-1B	AC INLET	△	RL501, 502	SSY134	RELAY	
JK101	SJF3068N	PHONO JACK		RL503	RSYD009-0	RELAY	
JK102	SJF3067N	TUNER/CD JACK					

Notes : * Capacity value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R301, 302	ERDAS3G561	1/4W 560	R501, 502	ERDFS2VJ681T	1/4W 680
			R303, 304	ERDS2TJ823T	1/4W 82K	R503, 504	ERDFS2VJ121T	1/4W 120
			R305, 306	ERDS2TJ224T	1/4W 220K	R505, 506	ERDFS2VJ681T	1/4W 680
R101-104	ERDS2TJ102	1/4W 1K	R307, 308	ERDS2TJ392T	1/4W 3.9K	R507, 508	ERDFS2VJ121T	1/4W 120
R105, 106	ERDS2TJ473	1/4W 47K	R309, 310	ERDS2TJ223	1/4W 22K	R509-512	ERF2EXKR10	2W 0.1
R107, 108	ERDS2TJ221	1/4W 220	R311, 312	ERDS2TJ102	1/4W 1K	R513-516	ERDFS2VJ100T	1/4W 10
R109, 110	ERDS2TJ220T	1/4W 22	R313, 314	ERDS2TJ562	1/4W 5.6K	R517, 518	ERDFS2VJ100T	1/4W 1
R111, 112	ERDS2TJ100	1/4W 10	R315, 316	ERDAS3G392T	1/4W 3.9K	R519, 520	ERDFS2VJ100T	1/4W 10
R113-118	ERDAS3G332T	1/4W 3.3K	R317, 318	ERDAS3G223T	1/4W 22K	R523, 524	ERDFS2VJ332T	1/4W 3.3K
R119, 120	ERDS2TJ101	1/4W 100	R319, 320	ERDS2TJ183T	1/4W 18K	R525, 526	ERDFS2VJ102T	1/4W 1K
R121-124	ERDAS3G121	1/4W 120	R321, 322	ERDAS3G182	1/4W 1.8K	R527, 528	ERDFS2VJ332T	1/4W 3.3K
R125, 126	ERDS2TNF5231	1/4W 5.23K	R401, 402	ERDS2TJ122	1/4W 1.2K	R529, 530	ERDS2TJ104	1/4W 100K
R127, 128	ERDS2TNG6802	1/4W 68K	R403, 404	ERDS2TJ823T	1/4W 82K	R531, 532	ERDFS2VJ331T	1/4W 330
R129, 130	ERDS2TJ334	1/4W 330K	R405, 406	ERDAS3G272T	1/4W 2.7K	R533-536	ERDFS2VJ2R2T	1/4W 2.2
R131, 132	ERDAS3G561	1/4W 560	R407, 408	ERDAS3G823T	1/4W 82K	R537-540	ERF2EXKR22	2W 0.22
R133, 134	ERDS2TJ274	1/4W 270K	R409, 410	ERDS2TJ561	1/4W 560	R541-544	ERDFS2VJ561T	1/4W 560
R135, 136	ERDS2TJ203T	1/4W 20K	R411, 412	ERDFS2VJ470T	1/4W 47	R545, 546	ERDS2TJ153	1/4W 15K
R137, 138	ERDAS3G561	1/4W 560	R437	ERDS2TJ473	1/4W 47K	R547, 548	ERDFS2VJ271T	1/4W 270
R181-196	ERDAS3G471T	1/4W 470	R439	ERDFS2VJ470T	1/4W 47	R549, 550	ERDFS2VJ472T	1/4W 4.7K
R211, 212	ERDAS3G223T	1/4W 22K	R451, 452	ERDFS2VJ182T	1/4W 1.8K	R551	ERDS2TJ473	1/4W 47K
R213, 214	ERDS2TJ183T	1/4W 18K	R453, 454	ERDS2TJ393	1/4W 39K	R552	ERDS2TJ563	1/4W 56K
R215, 216	ERDS2TJ272T	1/4W 2.7K	R455, 456	ERDFS2VJ391T	1/4W 390	R553	ERDS2TJ153	1/4W 15K
R217	ERDS2TJ824	1/4W 820K	R457	ERDS2TJ823T	1/4W 82K	R554	ERDS2TJ103	1/4W 10K
R219, 220	ERDAS3G471T	1/4W 470	R459, 460	ERDFS2VJ101T	1/4W 100	R555	ERDS2TJ563	1/4W 56K
R221, 222	ERDAS3G333T	1/4W 39K	R461-464	ERDS2TJ183T	1/4W 18K	R556	ERDS1FVJ682T	1/2W 6.8K △
R223, 224	ERDAS3G392T	1/4W 3.9K	R465-468	ERDFS2VJ101T	1/4W 100	R557	ERDS2TJ153	1/4W 15K
R231, 232	ERDAS3G472T	1/4W 4.7K	R469, 470	ERDFS2VJ821T	1/4W 820	R558, 560	ERDS1FVJ100T	1/2W 10 △
R233, 234	ERDAS3G124T	1/4W 120K	R471-474	ERDFS2VJ2R2T	1/4W 2.2	R561, 562	ERDS1FVJ561T	1/2W 560 △

■ PACKING

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R563, 564	ERG1SJ151E	1W 150	C313, 314	ECQV1H823JZ	50V 0.082U
R571-574	ERDFS2VJ681T	1/4W 680	C315, 316	ECQ81H153JF3	50V 0.015U
R575, 576	ERDS2TJ103	1/4W 10K	C317, 318	ECQ81H183JF3	50V 0.018U
R577, 578	ERG1SJ181E	1W 180	C319, 320	ECQ81H182JF3	50V 1800P
R579, 580	ERDFS2VJ332T	1/4W 3.3K	C321, 322	ECQ81H822JF3	50V 8200P
R581, 582	ERDS1FVJ561T	1/2W 560 Δ	C401, 402	ECA1HPXS3R3B	50V 3.3U
R583	ERG1SJ102E	1W 1K	C403, 404	ECBT1H271KB5	50V 270P
R584	ERG1SJ152E	1W 1.5K	C405, 406	ECA1CPXS220B	16V 22U
R585-592	ERG1SJ100E	1W 10	C407, 408	ECBT1H20KB5	50V 82P
R601	ERDS1FVJ180T	1/2W 18 Δ	C409, 410	ECBT1H100J5	50V 10P
R602	ERDS2TJ331	1/4W 330	C411, 412	ECBA1H681KB5	50V 680P
R603, 604	ERDFS2VJ688T	1/4W 6.8	C413, 414	ECCV2H070D	500V 7P
R605, 606	ERDFS2VJ477T	1/4W 4.7	C415-418	ECBT1H102KB5	50V 1000P
R607, 608	ERG1SJ331E	1W 330	C427, 428	ECQ81H223JF3	50V 0.022U
R609, 610	ERDS2TJ681	1/4W 680	C429	ECA1JAP220B	63V 22U
R651, 652	ERDS2TJ223	1/4W 22K	C451, 452	ECKR1H332F5	50V 0.033U
R653	ERDS2TJ102	1/4W 1K	C453-456	ECCV2H680K	500V 68P
R654	ERDS2TJ153	1/4W 15K	C457-460	ECEA1H4010B	50V 1U
R655	ERDS2TJ823T	1/4W 82K	C501-504	ECAQJPKS101B	6.3V 100U
R656	ERDS2TJ153	1/4W 15K	C505-508	ECQM1H224JZ	50V 0.22U
R657, 658	ERDS2TJ102	1/4W 1K	C509, 510	ECQ81H222JF3	50V 2200P
		CAPACITORS	C513-516	ECKR1H4732F5	50V 0.047U
			C517, 518	ECBT1H821KB5	50V 820P
			C519-528	ECKR1H1032F5	50V 0.01U
C1	ECNMS103ZVS	500V 0.01U Δ	C529	ECEA0JKA331Q	6.3V 330U
C101, 102	ECBT1H220J5	50V 22P	C530	ECFR1E223KR	25V 0.022U
C107, 108	ECQ81H102KF3	50V 1000P	C531	ECEA0JKA470B	6.3V 47U
C109, 110	ECQ81H222JF3	50V 2200P	C532, 533	ECEA1EKA4R7B	25V 4.7U
C111, 112	ECBT1H270JU5	50V 27P	C541-544	ECCR1H181K5	50V 180P
C113, 114	ECAQJAP332E	6.3V 3300P	C545-548	ECQ81H153KF3	50V 0.015U
C115, 116	ECQ81H392JF3	50V 3900P	C553, 554	ECKT1H102KB	50V 1000P
C117, 118	ECQ81H103JF3	50V 0.01U	C555-558	ECBA1H681KB5	50V 680P
C119, 120	ECQV1H473JZ3	50V 0.047U	C601, 602	ECED1JM103T	63V 10000U Δ
C121, 122	ECA1HPXS010B	50V 1U	C603, 604	ECA1JPKS221E	63V 220U
C123, 124	ECQ81H472JF3	50V 4700P	C605, 606	ECHR1H103JZ3	50V 0.01U
C125, 126	ECQV1H564JZ3	50V 0.56U	C607	ECQE2104KF3	100V 0.1U
C127, 128	ECQ81H223JF3	50V 0.022U	C609	ECA1CM221B	16V 220U
C129, 130	ECA1HPXS4R7B	50V 4.7U	C611-614	ECA1JAP220B	63V 22U
C131-134	ECQ81H102KF3	50V 1000P	C651-653	ECA1EPXS100B	25V 10U
C135, 136	ECBT1H560J5	50V 56P	C654, 655	ECA1HPXS3R3B	50V 3.3U
C181-186	ECCR1H101K5	50V 100P	C656	ECBT1H821KB5	50V 820P
C187, 188	ECCR1H181K5	50V 180P	C657, 658	ECKR1H1032F5	50V 0.01U
C189, 190	ECCR1H101K5	50V 100P			
C191, 192	ECBT1H181KB5	50V 180P			
C193-196	ECCR1H101K5	50V 100P			
C213, 214	ECQV1H563JZ3	50V 0.056U			
C301, 302	ECA1HPXS3R3B	50V 3.3U			
C303, 304	ECBT1H101KB5	50V 100P			
C305, 306	ECBT1H820KB5	50V 82P			
C307, 308	ECA1HPXS4R7B	50V 4.7U			
C309, 310	ECBT1H390J5	50V 39P			
C311, 312	ECA1CPXS100B	16V 10U			

